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APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/840,515 04/23/2001		04/23/2001	Ki-Won Jeong	11154-002002	4443	
26161	7590	03/08/2006		EXAMINER		
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MINNEAPOLIS, MN 55440-1022				ART UNIT	PAPER NUMBER	
				2611		
				DATE MAILED: 03/08/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)			
Office Action Summary			515	JEONG ET AL.			
			er	Art Unit			
		Ngoc K.	Vu	2611			
Period fo	The MAILING DATE of this communica r Reply	tion appears on t	he cover sheet with the	correspondence add	iress		
A SHO WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAINS IN THE M	LING DATE OF 7 37 CFR 1.136(a). In no ocation. bry period will apply and by statute, cause the a	THIS COMMUNICATION COMMUNICATI	ON. timely filed m the mailing date of this cor IED (35 U.S.C. § 133).			
Status							
2a) <u></u>	Responsive to communication(s) filed of This action is FINAL . 2b) Since this application is in condition for closed in accordance with the practice	This action is	non-final. ot for formal matters, p		merits is		
Dispositi	on of Claims						
5) □ 6) ⊠ 7) ⊠ 8) □ Applicati	Claim(s) 1-41 is/are pending in the appearance of the above claim(s) 1-9,22-30 and Claim(s) is/are allowed. Claim(s) 20, 31-34, 37 and 38 is/are recommon claim(s) 10-19,21,35 and 36 is/are objected to restriction con Papers The specification is objected to by the Entre drawing(s) filed on is/are: a	d 39-41 is/are wit jected. ected to. n and/or election	requirement.				
_	Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to be	on to the drawing(s) e correction is requ	be held in abeyance. S ired if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFI			
Priority u	nder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449 or PTO-1449) No(s)/Mail Date 9/30/02	-948) O/SB/08)	4) Interview Summal Paper No(s)/Mail 5) Notice of Informal 6) Other:		-152)		

DETAILED ACTION

Page 2

Claim Objections

- 1. Claim 1 is objected to because of the following informalities: it appears that the analog set top box comprises the analog satellite signal and image signal, and the digital set top box comprises the digital satellite signal and image signal. However, it is unclear which "signals" from the digital set top box and the analog set top box that are received by a graphic menu generator as recited in line 10. Please clarify the limitation "signals". Appropriate correction is required.
- 2. Claim 21 is objected to because of the following informalities: it appears that the limitation "the graphic menu" as recited in line 2 is in singular. Examiner suggests that this limitation should be changed into "the graphic menus". Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 37 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by Chaney et al. (US 5,515,058 A).

Regarding claim 37, Chaney discloses a method for receiving satellite broadcast, comprising steps of: setting moving limits of a satellite antenna (5) (via elevation look up table – see col. 3, lines 25-34; col. 4, lines 14-17); detecting signal received from the satellite antenna (microprocessor detects/receives signal quality data from demodulator from the plurality of signals received from antenna 5) with changing direction of the satellite antenna (via antenna

Art Unit: 2611

alignment – see col. 5, lines 18-67; col. 6, lines 10-15 and 45-48); displaying signal strength of the detected signal with a graphic menu which indicates the signal strength of the detected signal (signal quality graphics – see col. 8, lines 40-55); and detecting a satellite based on the signal strength which is displayed on the graphic menu (it is noted that the satellite antenna 5 must be positioned to receive the television signals transmitted by satellite 3 to provide the best quality image, and the signal quality graphics feature may be selected by a user by means of the antenna alignment menu see col. 3, line 60 to col. 4, line 6; col. 8, lines 55-57).

Regarding claim 38, Chaney discloses that the signal strength displayed on the graphic menu is characterized by FEC rate (col. 6, lines 1-4 and 45-48).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chaney et al. (US 5,515,058 A) in view of Rodeffer (US 5,296,862 A).

Regarding claim 20, Chaney teaches a digital satellite broadcast receiver (17) (see figures 1 and 3) comprising: a satellite antenna (5) which receives a satellite signal while moving (antenna alignment) (see col. 3, lines 44-51); a digital set-top box (317 within receiver 17) which receives a digital satellite signal of the satellite signal (see col. 6, lines 10-44, converts the digital satellite signal into an image signal, and controls a direction of the satellite antenna (col. 4, lines 55-60; col. 5, lines 19-21); a graphic menu generator device (341) which receives signals from the digital set-top box and generates a menu for performing antenna alignment

Art Unit: 2611

operation (col. 8, lines 40-57; col. 4, lines 55-59); and a display device (21) which displays the graphic menus generated by the graphic menu generator (col. 4, lines 55-59).

Chaney does not specifically teach generating a plurality of graphic menus for performing various satellite detecting operations. However, Rodeffer teaches a plurality of menus as shown in figures 4-6 for performing various satellite detecting operations. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Chaney by generating a plurality of graphic menus for performing various satellite detecting operations as taught by Rodeffer in order to provide user-friendly menus for locating satellite or targeting satellite effectively.

7. Claims 31-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rodeffer (US 5,296,862 A) in view of Chaney et al. (US 5,515,058 A).

Regarding claim 31, Rodeffer teaches a method for receiving satellite broadcast used for a satellite broadcast receiver (60) including a display device (TV) to displaying a plurality of graphic menus (as shown in figures 4-6) which indicates moving limits and a position of a satellite antenna (10), and a position of satellites, the method comprising the steps of: setting a numerical moving limit of the satellite antenna (latitude and longitude values – see col. 6, lines 9-11 and 15-16); displaying a present direction of the satellite antenna with a graphic menu, the present direction of the satellite antenna being displayed on a first bar menu of the graphic menu indicating the moving limit of the satellite antenna (420 and 430 – see figure 4); determining if a detected satellite is a desired satellite when the signal received by the satellite antenna is maximum (see col. 6, lines 15-20); and storing a relative position of the detected satellite (twelve readings) and displaying in the display device the relative position of the detected satellite with a second bar menu of the graphic menu, the second bar menu indicating

Application/Control Number: 09/840,515

Art Unit: 2611

the moving limit of the satellite antenna (frequency of audio sub-carrier in corresponding channel of satellite - see col. 15, lines 28-42 and col. 16, lines 34-40).

Page 5

Rodeffer does not teach displaying a magnitude of a signal received by the satellite antenna with a graphic menu on the display device. However, Chaney discloses that signal quality graphics is displayed on screen to indicate the signal quality (see col. 8, lines 40-57). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the system of Rodeffer by displaying signal quality graphics on screen for indicating the signal quality in order to assist the user in optimizing the adjustment of either or both of the elevation and azimuth position.

Regarding claim 32, Rodeffer further teaches selecting a satellite of the detected satellites; displaying movement of an indicator of the first menu to an indicator of the second menu indicating the selected satellite; changing a direction of the satellite antenna toward a direction of the selected satellite automatically; and receiving the satellite signal (see col. 6, lines 15-20 and 56-61; col. 8, lines 66-67).

Regarding claim 33, Rodeffer further teaches that the step of determining if the detected satellite is the desired satellite is performed by the user viewing an analog image signal display overlaid on the graphic menus on the display device (see col. 9, lines 51-62).

Regarding claim 34, the combined system of Rodeffer and Chaney further teaches that the step of determining if the detected satellite is the desired satellite is performed, in the case where the satellite is a digital satellite, by comparing transponder information with transponder information of the desired satellite (see Rodeffer: col. 10, lines 51-56; Chaney: col. 3, lines 13-18).

Allowable Subject Matter

Application/Control Number: 09/840,515 Page 6

Art Unit: 2611

8. Claims 1-19 would be allowable if rewritten or amended to overcome the objection set

forth in this Office action.

9. Claim 21 would be allowable if rewritten to overcome the objection set forth in this Office

action and to include all of the limitations of the base claim and any intervening claims.

10. Claims 35 and 36 are objected to as being dependent upon a rejected base claim, but

would be allowable if rewritten in independent form including all of the limitations of the base

claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Ngoc K. Vu whose telephone number is 571-272-7306. The examiner can

normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John W. Miller can be reached on 571-272-7353. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Ngoc K. Vu

Primary Examiner

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Art Unit 2611